IN THE CLAIMS

Please amend the claims as follows:

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Cancelled)
- 6. (New) A method for identifying compounds that preferentially block persistent but not transient Na+channels, said method comprising:

providing a cell engineered with K channels and voltage gated Na⁺ channels, and a ouabain-sensitive Na/K ATPase (Na⁺ pump), the Na⁺ channels containing a portion where current is persistent;

adding ouabain to the cell in order to block the Na⁺ pump leading to a small depolarization and a large secondary depolarization, the cell gaining Na⁺ via persistent Na⁺ channels open at near membrane potential;

adding a Na⁺ channel blockers to be identified into said cell;

identifying the added blockers as blocking persistent Na^+ channels where the added blockers prevents depolarization; and

thereafter determining if the identified added blocker blocks transient Na^+ current.

7. (New) The method according to claim 6 wherein the determination of the added blockers blocking transient Na^+ current includes:

passing a stimulation current through said cell sufficient to generate an action potential before the addition of the Na⁺ channel blocker and after the addition of the Na⁺ channel blocker; and

determining if the added blocker blocks the generated action potential and therefore a significant portion of the transient Na^+ current.

- 8. (New) The method according to claim 7 wherein the determination of whether the added blocker blocks the generated action potential includes disposing a florescent dye into said cell, said florescent dye being sensitive to change in cell membrane potential in order to enable optical measuring of cell membrane potential.
- 9. (New) The method according to claim 6 wherein a potassium conductance (gk) of the cell is of a magnitude enabling an addition of potassium to the cell to cause a measurable depolarization and a conductance of a persistent component Na⁺ channel (gNa_{persistent}) sufficiently large to produce a voltage change when extracellar Na⁺ is introduced into the well.
- 10. (New) The method according to claim 6 wherein the cell is engineered with K and Na⁺ channels in order that relative conductance of the K channel and a portion of the Na⁺ channel, that generates the persistent current are similar.